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(54) FLAME-RETARDANT POLYESTER BASED RESIN COMPOSITION

(57)Abstract:

PURPOSE: To obtain the title composition having good thermal stability to retention in molding, excellent flame retardant and mechanical characteristics and hardly generating corrosive gas by pyrolysis by blending a specific halogen-containing epoxy modified material with a flame-retardant assistant and a reinforcing filler.

CONSTITUTION: The objective composition obtained by blending 100 pts.wt. polyester with 3-50 pts.wt. halogen-containing epoxy modified material expressed by the formula (R2 is 1-4C alkylidene, alkylene or -SO₂-; R1 and R3 are glycidyl, H, OH or formula II; X and Y are halogen; p and q are 0-4; r is 0-5; n is ≥11 average polymerization degree) and having ≤1.0 (KOHmg/g) phenolic acid value, 0.1-20 pts.wt. flame-retardant assistant and 0-150 pts.wt. reinforcing filler. The above-mentioned flame retardant is obtained by heating halogenated bisphenol A and halogenated bisphenol A diglycidyl ether in the presence of a catalyst.